

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT



APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Ute Tribal 08-04-D4					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT DUCHESNE					
4. TYPE OF WELL Oil Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME					
6. NAME OF OPERATOR PETROGLYPH OPERATING CO						7. OPERATOR PHONE 208 685-7685					
8. ADDRESS OF OPERATOR 960 Broadway Avenue, Ste 500, Bosie, ID, 83703						9. OPERATOR E-MAIL ppowell@pgei.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 1-109-IND-5351			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Duchesne Land LC						14. SURFACE OWNER PHONE (if box 12 = 'fee')					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') P.O. Box 358, Duchesne, UT 84021						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Indian Tribe			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>					
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE		1412 FNL 636 FWL		SWNW	8	4.0 S	4.0 W	U			
Top of Uppermost Producing Zone		660 FNL 660 FWL		NWNW	8	4.0 S	4.0 W	U			
At Total Depth		660 FNL 660 FWL		NWNW	8	4.0 S	4.0 W	U			
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 636			23. NUMBER OF ACRES IN DRILLING UNIT 4150					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completion) 17.12			26. PROPOSED DEPTH MD: 9130 TVD: 9060					
27. ELEVATION - GROUND LEVEL 5778			28. BOND NUMBER LPM4138336			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8342					
Hole, Casing, and Cement Information											
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight	
COND	20	14	0 - 35	5.0	Unknown	10.0	Class G	25	1.17	15.8	
SURF	12.25	8 625	0 - 495	24.0	J-55 ST&C	10.0	Class G	227	1.17	15.8	
PROD	7.875	3 5	0 - 9130	15.5	J-55 LT&C	10.0	Class G	622	1.92	12.5	
							Class G	591	1.46	13.4	
ATTACHMENTS											
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES											
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Ed Trotter			TITLE Agent			PHONE 435 789-4120					
SIGNATURE			DATE 07/02/2012			EMAIL edtrotter@easilink.com					
API NUMBER ASSIGNED 43013515400000						APPROVAL					

Received: August 22, 2012

CONFIDENTIAL
NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 08-04-D4
NW NW, SEC 7, T4S, R4W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation		Subsea	TVD	MD
Rig KB=~15' above GGL		5793	0	0
Surface Formation = Uinta				
Uinta		5778	15	15
Green River		3688	2105	2125
Trona		2119	3674	3728
Mahogany Shale		1930	3863	3921
"B" Marker	Waterflood Unit Interval	585	5208	5300
"X" Marker		46	5747	5817
Douglas Creek Marker		-88	5881	5951
"B" Limestone		-551	5208	6414
Base Castle Peak Limestone		-1138	6931	7001
BSCARB		-1492	7235	7355
Wasatch		-1764	7557	7627
Rig TD		9257	9060	9130

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground water*	not present	6050	0	0
Oil/Gas	Douglas Creek	-88	5881	5951
Oil/Gas	Castle Peak	-1138	6931	7001
Oil/Gas	Wasatch	-1764	7557	7627

Any water encountered during drilling shall be sampled, analyzed and reported to the BLM Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest)	Temperature	pH	TDS
Dissolved Iron	Dissolved Magnesium	Dissolved Bicarb.	Dissolved Sulfate
Dissolved Calcium	Dissolved Sodium	Dissolved Carbonate	Dissolved Chloride

All depths through the "Base of moderately saline ground water"*, along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

*Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



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3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	54.5'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	494.5'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	9130'	15.5	J-55	LTC

String	Hole	Casing	Collapse	Burst	Tensile
Surface	12-1/4"	8-5/8"	1,370 psi	2,950 psi	244,000 lb
Production	7-7/8"	5-1/2"	4,040 psi	4,810 psi	248,000 lb

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 5300' MD.

4. PROPOSED CEMENTING PROGRAM:

String	Top	Cement Description	Sacks	Excess	Weight (ppg)	Yield (ft³/sk)
	Bottom		Vol (ft³)			
Conductor	0 54.5	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 494.5	Class G +2% CaCl2 +0.25 lb/sk Cello Flake	227 265	30%	15.8	1.17
Production Lead	0 5300	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	622 1,194	30%	12.5	1.92
Production Tail	5300 9130	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	591 863	30%	13.4	1.46

- The 8-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, a remedial surface cementing operation shall be performed only if necessary to lift cement above the Surface Casing Shoe at 480' MD.

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5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

- An 8", 2000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- A 2000 PSI Working Pressure Annular shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 2,000 psi BOP schematic diagram.

BOPE TESTING PROCEDURE:

- The BOPE shall be tested by a professional tester to conform to Onshore Order #2.

6. MUD PROGRAM:

A. SURFACE HOLE

- The surface hole will be drilled with an air mist system from 0' to 494.5'. All cutting shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
 - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
 - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
 - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
 - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.

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B. PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 494.5' to 9130'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least, a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location.

C. HAZARDOUS MATERIALS AND POLLUTANTS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior BLM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.

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7. EVALUATION PROGRAM:

Logs:	Triple Combo	TD to base of surface casing (AIT, DSN, CDL) Base of surface casing to surface (GR)
Cores:	None planned	
DST:	None planned	
Testing:	Operator plans no testing until the completion phase of the well.	

8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

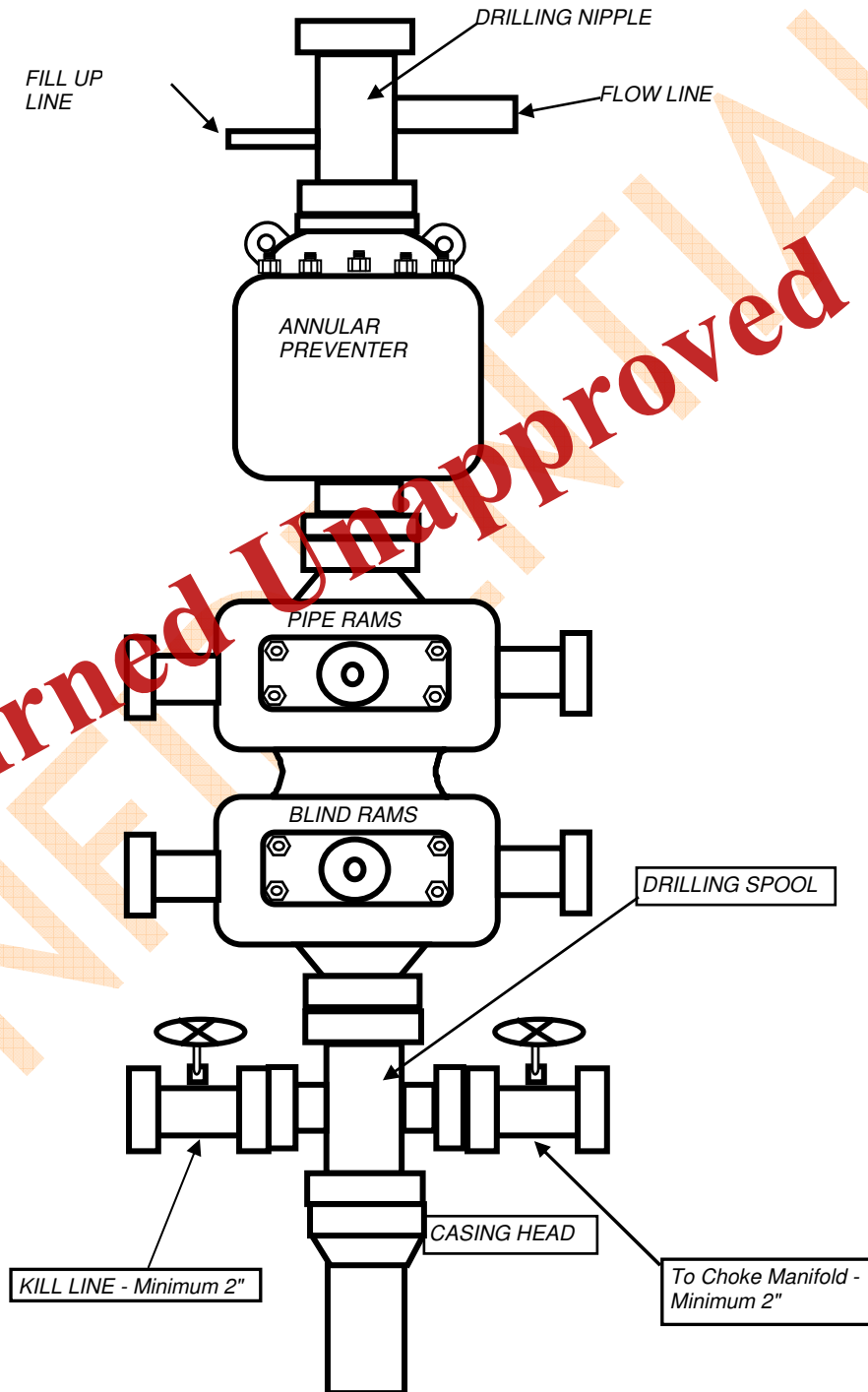
- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H₂S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 2282.5 PSI (0.25 PSI/ft gradient).
- This well is NOT in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient.

9. DIRECTIONAL WELL PLAN:

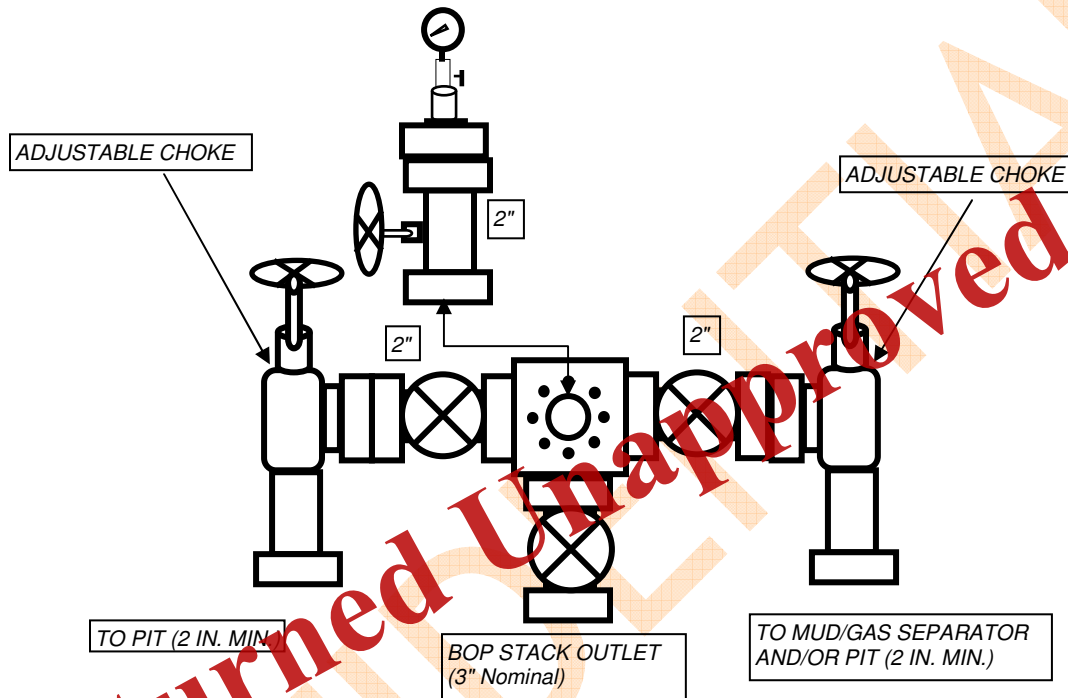
- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- While cutting the Waterflood Unit Interval from 5300' to 7355', the actual well path may be allowed to vary up to 100' horizontally from plan in order to prevent excessive slide drilling. Above and below the Waterflood Unit Interval, variances in excess 100' horizontally from plan may be allowed.
- Directional drilling plan is attached.

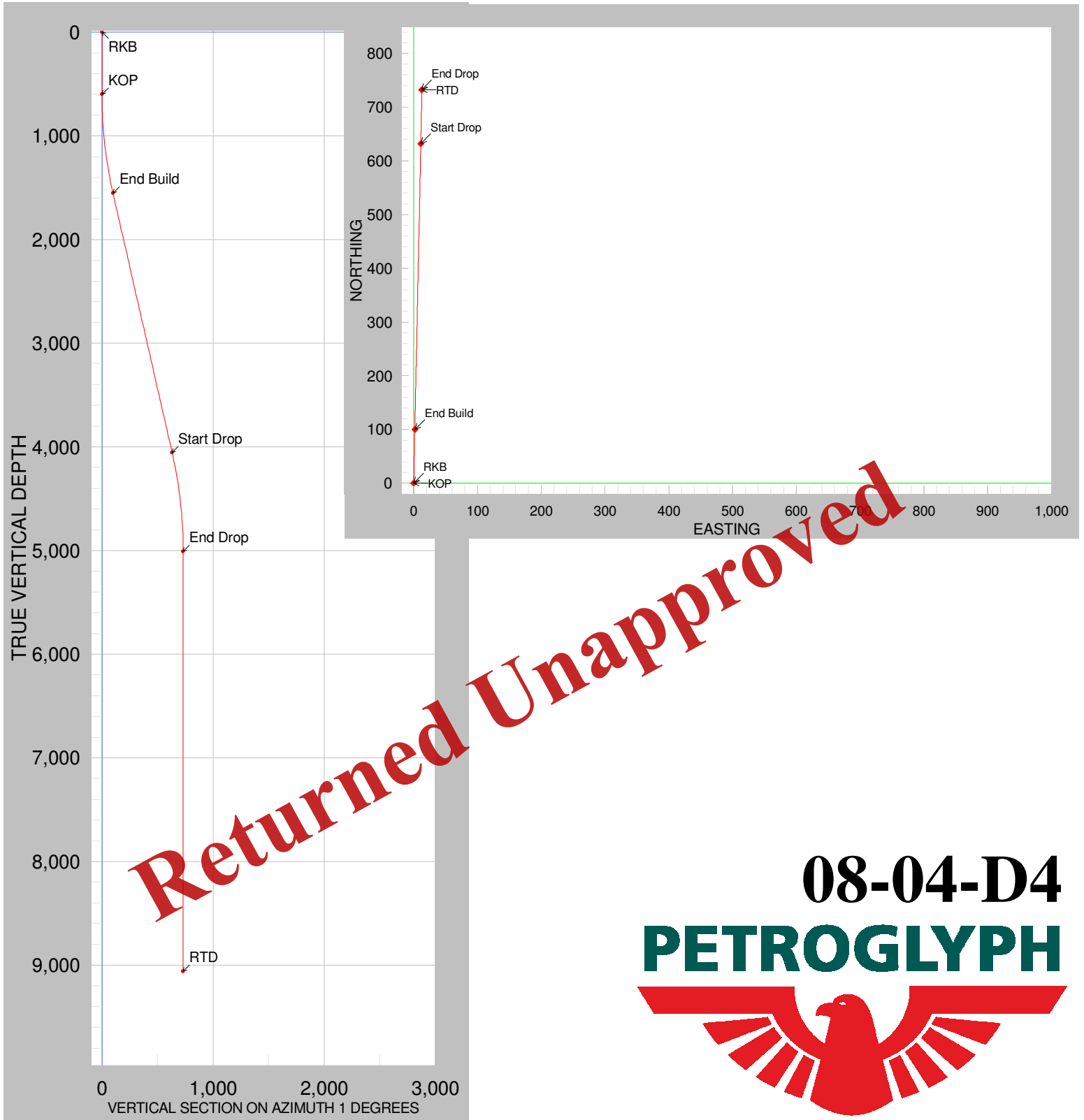
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TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER



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TYPICAL 2,000 p.s.i. CHOKE MANIFOLD





#	Reference	Type	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	KOP	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	1560.00	12.00	1.00	1553.00	100.15	1.75	1.25	100.16
3	Start Drop	Tangent	4120.00	12.00	1.00	4057.05	632.32	11.04	0.00	632.42
4	End Drop	Drop	5080.00	0.00	0.00	5010.05	732.47	12.79	1.25	732.58
5	RTD	Vertical	9130.00	0.00	0.00	9060.05	732.47	12.79	0.00	732.58

Received: July 02, 2012

08-04-D4, Plan 1

08-04-D4, Plan 1										
Operator Field Well Name 08-04-D4 Plan 1				Units feet, %/100ft County State Country			10:14 Wednesday, April 18, 2012 Page 1 of 6 Vertical Section Azimuth 1 Survey Calculation Method Minimum Curvature Database Access			
Location Site Slot Name Well Number Project		UWI API		MapZone SurfaceX SurfaceY Z Datum Surface Z			Lat Long Ref Surface Long Surface Lat Ground Level			
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
*** RKB (at MD = 0.00)										
0.00	0.00	0.0	0.00	0.00	0.00		0.00			
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00			
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00			
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00			
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00			
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00			
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00			
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00			
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00			
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00			
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00			
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00			
*** KOP (at MD = 600.00)										
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00			
650.00	0.63	1.0	650.00	0.27	0.00	1.25	0.27			
700.00	1.25	1.0	699.99	1.09	0.02	1.25	1.09			
750.00	1.88	1.0	749.97	2.45	0.04	1.25	2.45			
800.00	2.50	1.0	799.94	4.36	0.08	1.25	4.36			
850.00	3.13	1.0	849.88	6.82	0.12	1.25	6.82			
900.00	3.75	1.0	899.79	9.81	0.17	1.25	9.81			
950.00	4.38	1.0	949.66	13.35	0.23	1.25	13.36			
1000.00	5.00	1.0	999.49	17.44	0.30	1.25	17.44			
1050.00	5.63	1.0	1049.28	22.07	0.39	1.25	22.07			
1100.00	6.25	1.0	1099.01	27.24	0.48	1.25	27.24			
1150.00	6.88	1.0	1148.68	32.95	0.58	1.25	32.96			
1200.00	7.50	1.0	1198.29	39.21	0.68	1.25	39.21			
1250.00	8.13	1.0	1247.82	46.00	0.80	1.25	46.01			
1300.00	8.75	1.0	1297.28	53.34	0.93	1.25	53.35			
1350.00	9.38	1.0	1346.66	61.21	1.07	1.25	61.22			
1400.00	10.00	1.0	1395.94	69.63	1.22	1.25	69.64			
1450.00	10.63	1.0	1445.14	78.58	1.37	1.25	78.59			
1500.00	11.25	1.0	1494.23	88.06	1.54	1.25	88.07			
1550.00	11.88	1.0	1543.21	98.08	1.71	1.25	98.10			
*** END BUILD (at MD = 1560.00)										
1560.00	12.00	1.0	1553.00	100.15	1.75	1.25	100.16			

08-04-D4, Plan 1

08-04-D4, Plan 1										
Operator Field Well Name 08-04-D4 Plan 1				Units feet, %/100ft County State Country			10:14 Wednesday, April 18, 2012 Page 2 of 6 Vertical Section Azimuth 1 Survey Calculation Method Minimum Curvature Database Access			
Location Site Slot Name Well Number Project		UWI API		MapZone SurfaceX SurfaceY Z Datum Surface Z		Lat Long Ref Surface Long Surface Lat Ground Level				
DIRECTIONAL WELL PLAN										
MD* ft	INC* deg	AZI* deg	TVD* ft	N* ft	E* ft	DLS* %/100ft	V. S.* ft	MapE* ft	MapN* ft	SysTVD* ft
1600.00	12.00	1.0	1592.12	108.46	1.89	0.00	108.48			
1650.00	12.00	1.0	1641.03	118.86	2.07	0.00	118.88			
1700.00	12.00	1.0	1689.94	129.25	2.26	0.00	129.27			
1750.00	12.00	1.0	1738.85	139.65	2.44	0.00	139.67			
1800.00	12.00	1.0	1787.75	150.04	2.62	0.00	150.06			
1850.00	12.00	1.0	1836.66	160.43	2.80	0.00	160.46			
1900.00	12.00	1.0	1885.57	170.83	2.98	0.00	170.85			
1950.00	12.00	1.0	1934.47	181.22	3.16	0.00	181.25			
2000.00	12.00	1.0	1983.38	191.62	3.34	0.00	191.65			
2050.00	12.00	1.0	2032.29	202.01	3.53	0.00	202.04			
2100.00	12.00	1.0	2081.20	212.40	3.71	0.00	212.44			
2150.00	12.00	1.0	2130.10	222.80	3.89	0.00	222.83			
2200.00	12.00	1.0	2179.01	233.19	4.07	0.00	233.23			
2250.00	12.00	1.0	2227.92	243.59	4.25	0.00	243.62			
2300.00	12.00	1.0	2276.83	253.98	4.43	0.00	254.02			
2350.00	12.00	1.0	2325.73	264.37	4.61	0.00	264.41			
2400.00	12.00	1.0	2374.64	274.77	4.80	0.00	274.81			
2450.00	12.00	1.0	2423.55	285.16	4.98	0.00	285.21			
2500.00	12.00	1.0	2472.46	295.56	5.16	0.00	295.60			
2550.00	12.00	1.0	2521.36	305.95	5.34	0.00	306.00			
2600.00	12.00	1.0	2570.27	316.34	5.52	0.00	316.39			
2650.00	12.00	1.0	2619.18	326.74	5.70	0.00	326.79			
2700.00	12.00	1.0	2668.09	337.13	5.88	0.00	337.18			
2750.00	12.00	1.0	2716.99	347.53	6.07	0.00	347.58			
2800.00	12.00	1.0	2765.90	357.92	6.25	0.00	357.97			
2850.00	12.00	1.0	2814.81	368.31	6.43	0.00	368.37			
2900.00	12.00	1.0	2863.71	378.71	6.61	0.00	378.77			
2950.00	12.00	1.0	2912.62	389.10	6.79	0.00	389.16			
3000.00	12.00	1.0	2961.53	399.50	6.97	0.00	399.56			
3050.00	12.00	1.0	3010.44	409.89	7.15	0.00	409.95			
3100.00	12.00	1.0	3059.34	420.28	7.34	0.00	420.35			
3150.00	12.00	1.0	3108.25	430.68	7.52	0.00	430.74			
3200.00	12.00	1.0	3157.16	441.07	7.70	0.00	441.14			
3250.00	12.00	1.0	3206.07	451.47	7.88	0.00	451.53			
3300.00	12.00	1.0	3254.97	461.86	8.06	0.00	461.93			

08-04-D4, Plan 1

08-04-D4, Plan 1										
Operator Field Well Name 08-04-D4 Plan 1				Units feet, %/100ft County State Country				10:14 Wednesday, April 18, 2012 Page 3 of 6 Vertical Section Azimuth 1 Survey Calculation Method Minimum Curvature Database Access		
Location Site Slot Name Well Number Project				UWI API				MapZone SurfaceX SurfaceY Z Datum Surface Z		Lat Long Ref Surface Long Surface Lat Ground Level
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
3350.00	12.00	1.0	3303.88	472.25	8.24	0.00	472.33			
3400.00	12.00	1.0	3352.79	482.65	8.42	0.00	482.72			
3450.00	12.00	1.0	3401.70	493.04	8.61	0.00	493.12			
3500.00	12.00	1.0	3450.60	503.44	8.79	0.00	503.51			
3550.00	12.00	1.0	3499.51	513.83	8.97	0.00	513.91			
3600.00	12.00	1.0	3548.42	524.22	9.15	0.00	524.30			
3650.00	12.00	1.0	3597.33	534.62	9.33	0.00	534.70			
3700.00	12.00	1.0	3646.23	545.01	9.51	0.00	545.00			
3750.00	12.00	1.0	3695.14	555.41	9.69	0.00	555.49			
3800.00	12.00	1.0	3744.05	565.80	9.88	0.00	565.89			
3850.00	12.00	1.0	3792.96	576.19	10.06	0.00	576.28			
3900.00	12.00	1.0	3841.86	586.59	10.24	0.00	586.68			
3950.00	12.00	1.0	3890.77	596.98	10.42	0.00	597.07			
4000.00	12.00	1.0	3939.68	607.38	10.60	0.00	607.47			
4050.00	12.00	1.0	3988.59	617.77	10.78	0.00	617.86			
4100.00	12.00	1.0	4037.49	628.16	10.96	0.00	628.26			
*** START DROP (at MD = 4120.00)										
4120.00	12.00	1.0	4057.05	632.32	11.04	0.00	632.42			
4150.00	11.63	1.0	4086.42	638.46	11.14	1.25	638.56			
4200.00	11.00	1.0	4135.45	648.27	11.32	1.25	648.37			
4250.00	10.38	1.0	4184.58	657.54	11.48	1.25	657.64			
4300.00	9.75	1.0	4233.81	666.27	11.63	1.25	666.38			
4350.00	9.13	1.0	4283.13	674.47	11.77	1.25	674.57			
4400.00	8.50	1.0	4332.54	682.13	11.91	1.25	682.23			
4450.00	7.88	1.0	4382.03	689.25	12.03	1.25	689.36			
4500.00	7.25	1.0	4431.60	695.83	12.15	1.25	695.94			
4550.00	6.63	1.0	4481.23	701.87	12.25	1.25	701.97			
4600.00	6.00	1.0	4530.93	707.36	12.35	1.25	707.47			
4650.00	5.38	1.0	4580.68	712.32	12.43	1.25	712.43			
4700.00	4.75	1.0	4630.49	716.73	12.51	1.25	716.84			
4750.00	4.13	1.0	4680.34	720.60	12.58	1.25	720.71			
4800.00	3.50	1.0	4730.23	723.92	12.64	1.25	724.03			
4850.00	2.88	1.0	4780.15	726.70	12.68	1.25	726.81			
4900.00	2.25	1.0	4830.10	728.94	12.72	1.25	729.05			
4950.00	1.63	1.0	4880.07	730.63	12.75	1.25	730.74			

08-04-D4, Plan 1

08-04-D4, Plan 1										
Operator Field Well Name 08-04-D4 Plan 1				Units feet, %/100ft County State Country			10:14 Wednesday, April 18, 2012 Page 4 of 6 Vertical Section Azimuth 1 Survey Calculation Method Minimum Curvature Database Access			
Location Site Slot Name Well Number Project		UWI API		MapZone SurfaceX SurfaceY Z Datum Surface Z				Lat Long Ref Surface Long Surface Lat Ground Level		
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
5000.00	1.00	1.0	4930.06	731.77	12.77	1.25	731.88			
5050.00	0.38	1.0	4980.05	732.37	12.78	1.25	732.48			
*** END DROP (at MD = 5080.00)										
5080.00	0.00	0.0	5010.05	732.47	12.79	1.25	732.58			
5100.00	0.00	0.0	5030.05	732.47	12.79	0.00	732.58			
5150.00	0.00	0.0	5080.05	732.47	12.79	0.00	732.58			
5200.00	0.00	0.0	5130.05	732.47	12.79	0.00	732.58			
5250.00	0.00	0.0	5180.05	732.47	12.79	0.00	732.58			
5300.00	0.00	0.0	5230.05	732.47	12.79	0.00	732.58			
5350.00	0.00	0.0	5280.05	732.47	12.79	0.00	732.58			
5400.00	0.00	0.0	5330.05	732.47	12.79	0.00	732.58			
5450.00	0.00	0.0	5380.05	732.47	12.79	0.00	732.58			
5500.00	0.00	0.0	5430.05	732.47	12.79	0.00	732.58			
5550.00	0.00	0.0	5480.05	732.47	12.79	0.00	732.58			
5600.00	0.00	0.0	5530.05	732.47	12.79	0.00	732.58			
5650.00	0.00	0.0	5580.05	732.47	12.79	0.00	732.58			
5700.00	0.00	0.0	5630.05	732.47	12.79	0.00	732.58			
5750.00	0.00	0.0	5680.05	732.47	12.79	0.00	732.58			
5800.00	0.00	0.0	5730.05	732.47	12.79	0.00	732.58			
5850.00	0.00	0.0	5780.05	732.47	12.79	0.00	732.58			
5900.00	0.00	0.0	5830.05	732.47	12.79	0.00	732.58			
5950.00	0.00	0.0	5880.05	732.47	12.79	0.00	732.58			
6000.00	0.00	0.0	5930.05	732.47	12.79	0.00	732.58			
6050.00	0.00	0.0	5980.05	732.47	12.79	0.00	732.58			
6100.00	0.00	0.0	6030.05	732.47	12.79	0.00	732.58			
6150.00	0.00	0.0	6080.05	732.47	12.79	0.00	732.58			
6200.00	0.00	0.0	6130.05	732.47	12.79	0.00	732.58			
6250.00	0.00	0.0	6180.05	732.47	12.79	0.00	732.58			
6300.00	0.00	0.0	6230.05	732.47	12.79	0.00	732.58			
6350.00	0.00	0.0	6280.05	732.47	12.79	0.00	732.58			
6400.00	0.00	0.0	6330.05	732.47	12.79	0.00	732.58			
6450.00	0.00	0.0	6380.05	732.47	12.79	0.00	732.58			
6500.00	0.00	0.0	6430.05	732.47	12.79	0.00	732.58			
6550.00	0.00	0.0	6480.05	732.47	12.79	0.00	732.58			
6600.00	0.00	0.0	6530.05	732.47	12.79	0.00	732.58			

08-04-D4, Plan 1

08-04-D4, Plan 1										
Operator Field Well Name 08-04-D4 Plan 1			Units feet, %/100ft County State Country			10:14 Wednesday, April 18, 2012 Page 5 of 6 Vertical Section Azimuth 1 Survey Calculation Method Minimum Curvature Database Access				
Location Site Slot Name Well Number Project		UWI API		MapZone SurfaceX SurfaceY Z Datum Surface Z		Lat Long Ref Surface Long Surface Lat Ground Level				
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
6650.00	0.00	0.0	6580.05	732.47	12.79	0.00	732.58			
6700.00	0.00	0.0	6630.05	732.47	12.79	0.00	732.58			
6750.00	0.00	0.0	6680.05	732.47	12.79	0.00	732.58			
6800.00	0.00	0.0	6730.05	732.47	12.79	0.00	732.58			
6850.00	0.00	0.0	6780.05	732.47	12.79	0.00	732.58			
6900.00	0.00	0.0	6830.05	732.47	12.79	0.00	732.58			
6950.00	0.00	0.0	6880.05	732.47	12.79	0.00	732.58			
7000.00	0.00	0.0	6930.05	732.47	12.79	0.00	732.58			
7050.00	0.00	0.0	6980.05	732.47	12.79	0.00	732.58			
7100.00	0.00	0.0	7030.05	732.47	12.79	0.00	732.58			
7150.00	0.00	0.0	7080.05	732.47	12.79	0.00	732.58			
7200.00	0.00	0.0	7130.05	732.47	12.79	0.00	732.58			
7250.00	0.00	0.0	7180.05	732.47	12.79	0.00	732.58			
7300.00	0.00	0.0	7230.05	732.47	12.79	0.00	732.58			
7350.00	0.00	0.0	7280.05	732.47	12.79	0.00	732.58			
7400.00	0.00	0.0	7330.05	732.47	12.79	0.00	732.58			
7450.00	0.00	0.0	7380.05	732.47	12.79	0.00	732.58			
7500.00	0.00	0.0	7430.05	732.47	12.79	0.00	732.58			
7550.00	0.00	0.0	7480.05	732.47	12.79	0.00	732.58			
7600.00	0.00	0.0	7530.05	732.47	12.79	0.00	732.58			
7650.00	0.00	0.0	7580.05	732.47	12.79	0.00	732.58			
7700.00	0.00	0.0	7630.05	732.47	12.79	0.00	732.58			
7750.00	0.00	0.0	7680.05	732.47	12.79	0.00	732.58			
7800.00	0.00	0.0	7730.05	732.47	12.79	0.00	732.58			
7850.00	0.00	0.0	7780.05	732.47	12.79	0.00	732.58			
7900.00	0.00	0.0	7830.05	732.47	12.79	0.00	732.58			
7950.00	0.00	0.0	7880.05	732.47	12.79	0.00	732.58			
8000.00	0.00	0.0	7930.05	732.47	12.79	0.00	732.58			
8050.00	0.00	0.0	7980.05	732.47	12.79	0.00	732.58			
8100.00	0.00	0.0	8030.05	732.47	12.79	0.00	732.58			
8150.00	0.00	0.0	8080.05	732.47	12.79	0.00	732.58			
8200.00	0.00	0.0	8130.05	732.47	12.79	0.00	732.58			
8250.00	0.00	0.0	8180.05	732.47	12.79	0.00	732.58			
8300.00	0.00	0.0	8230.05	732.47	12.79	0.00	732.58			
8350.00	0.00	0.0	8280.05	732.47	12.79	0.00	732.58			

08-04-D4, Plan 1

08-04-D4, Plan 1										
Operator		Units		10:14 Wednesday, April 18, 2012 Page 6 of 6						
Field		County		Vertical Section Azimuth 1						
Well Name 08-04-D4		State		Survey Calculation Method Minimum Curvature						
Plan 1		Country		Database Access						
Location		MapZone		Lat Long Ref						
Site		SurfaceX		Surface Long						
Slot Name		SurfaceY		Surface Lat						
Well Number		Z Datum								
Project		Surface Z		Ground Level						
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
8400.00	0.00	0.0	8330.05	732.47	12.79	0.00	732.58			
8450.00	0.00	0.0	8380.05	732.47	12.79	0.00	732.58			
8500.00	0.00	0.0	8430.05	732.47	12.79	0.00	732.58			
8550.00	0.00	0.0	8480.05	732.47	12.79	0.00	732.58			
8600.00	0.00	0.0	8530.05	732.47	12.79	0.00	732.58			
8650.00	0.00	0.0	8580.05	732.47	12.79	0.00	732.58			
8700.00	0.00	0.0	8630.05	732.47	12.79	0.00	732.58			
8750.00	0.00	0.0	8680.05	732.47	12.79	0.00	732.58			
8800.00	0.00	0.0	8730.05	732.47	12.79	0.00	732.58			
8850.00	0.00	0.0	8780.05	732.47	12.79	0.00	732.58			
8900.00	0.00	0.0	8830.05	732.47	12.79	0.00	732.58			
8950.00	0.00	0.0	8880.05	732.47	12.79	0.00	732.58			
9000.00	0.00	0.0	8930.05	732.47	12.79	0.00	732.58			
9050.00	0.00	0.0	8980.05	732.47	12.79	0.00	732.58			
9100.00	0.00	0.0	9030.05	732.47	12.79	0.00	732.58			
*** RTD (at MD = 9130.00)										
9130.00	0.00	0.0	9060.05	732.47	12.79	0.00	732.58			

T4S, R4W, U.S.B.&M.

PETROGLYPH OPERATING CO., INC.

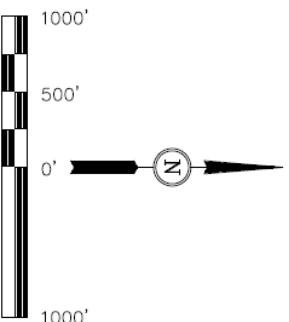
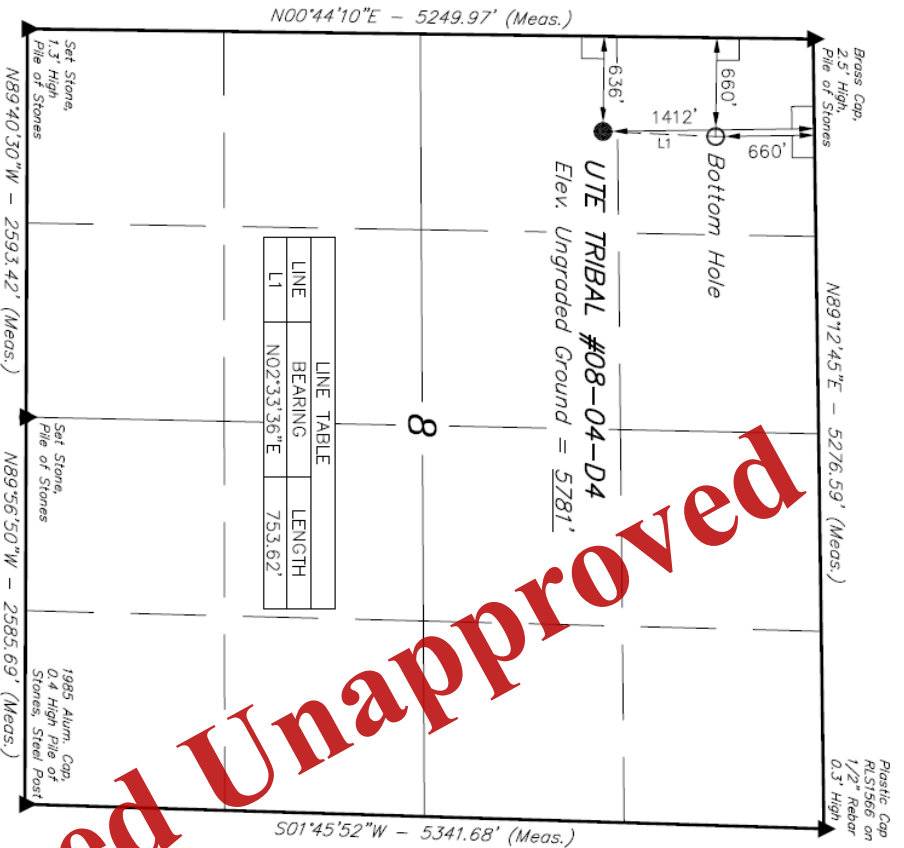
Well location, UTE TRIBAL #08-04-D4, located as shown in the SW 1/4 NW 1/4 of Section 8, T4S, R4W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESE SE. QUADRANGLE, UTAH, DUCHESE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6097 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

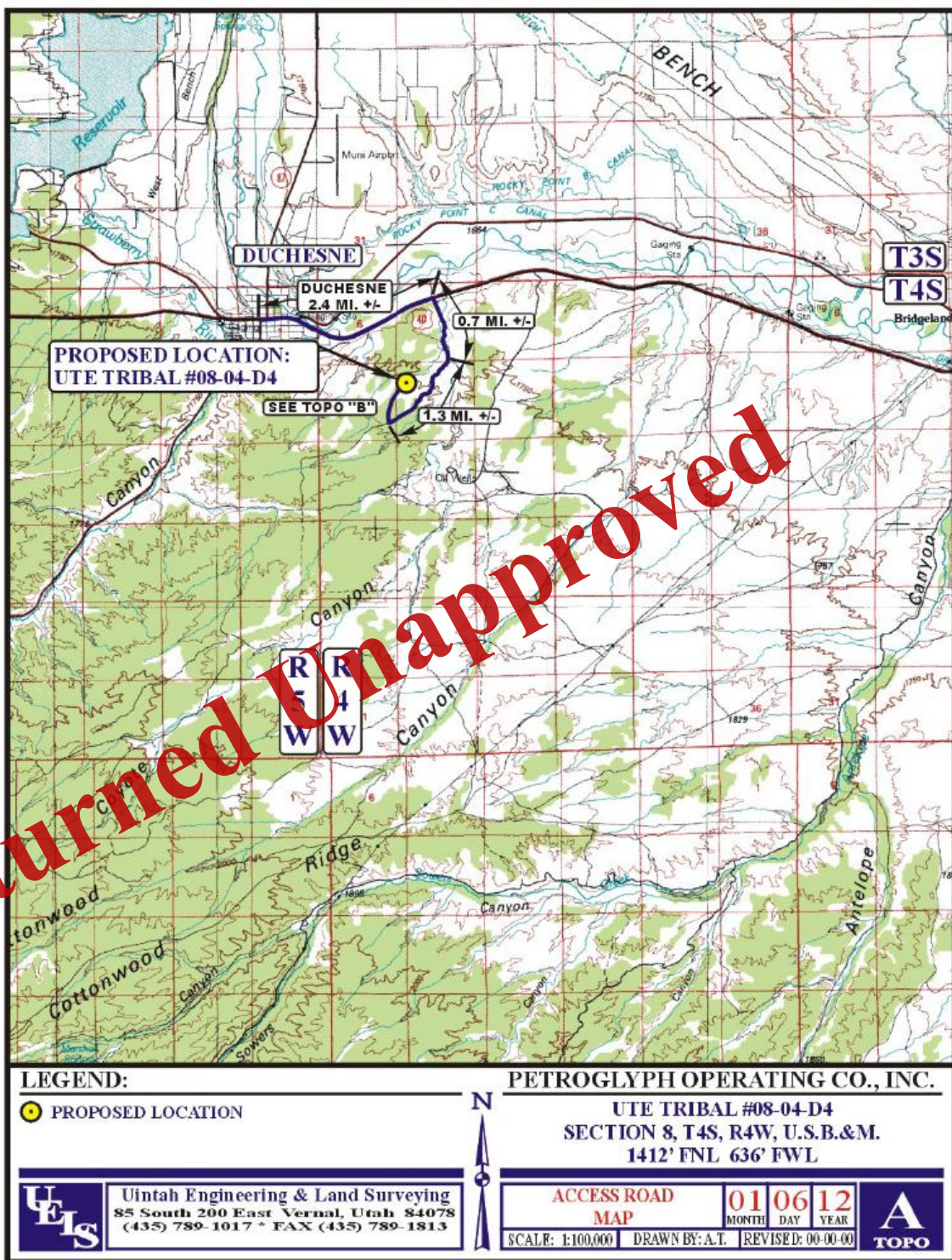
THIS IS TO CERTIFY THAT THE ABOVE MAP WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

LEGEND:			
└─	= 90° SYMBOL	NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
●	= PROPOSED WELL HEAD.	LATITUDE = 40°09'12.85" (40.153569)	LATITUDE = 40°09'05.41" (40.151503)
▲	= SECTION CORNERS LOCATED.	LONGITUDE = 110°22'05.01" (110.368058)	LONGITUDE = 110°22'05.45" (110.368181)
		NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
		LATITUDE = 40°09'13.00" (40.153611)	LATITUDE = 40°09'05.56" (40.151544)
		LONGITUDE = 110°22'02.45" (110.367347)	LONGITUDE = 110°22'02.89" (110.367469)
		WEATHER	FILE
		COLD	PETROGLYPH OPERATING CO., INC.
		DATE SURVEYED: 01-05-12	DATE DRAWN: 02-06-12
		REFERENCES	G.L.O. PLAT

Returned Unapproved



PETROGLYPH OPERATING CO., INC.
P.O. BOX 607
ROOSEVELT, UTAH 84066

July 2, 2012

Ms. Diana Mason
State of Utah
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

Re: Directional Drilling R649-3-11

Ute Tribal 08-04-D4: 1412' FNL & 636' FWL, (Surface Hole), SW/NW,
660' FNL & 660' FWL, (Bottom Hole), NW/NW,
Sec. 8, T4S, R4W, U.S.B.&M.,
Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on July 2, 2012, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Ute Tribal 08-04-D4 is located within the Antelope Creek Unit Area.
 - Petroglyph Operating Co., Inc. is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and drilling directionally from this location, Petroglyph Operating Co., Inc. will be able to utilize the existing road and pipelines in the area.
- Furthermore, Petroglyph Operating Co., Inc. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Petroglyph Operating Co., Inc. requests the permit be granted pursuant to R649-3-11.

Respectfully Submitted,

Ed Trotter,
Agent
P.O. Box 1910
Vernal, UT 84078
Phone: (435)789-4120
Fax: (435)789-1420
E-mail: edtrotter@easilink.com

Received: July 02, 2012

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the **UTE TRIBAL 08-04-D4 Well, located in SW/NW of Section 8, T4S, R4W, Duchesne County, Utah, lease #1-109-IND-5351**; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LP4138153.

Date

Agent

Returned Unapproved

PETROGLYPH OPERATING CO., INC.

LOCATION LAYOUT FOR

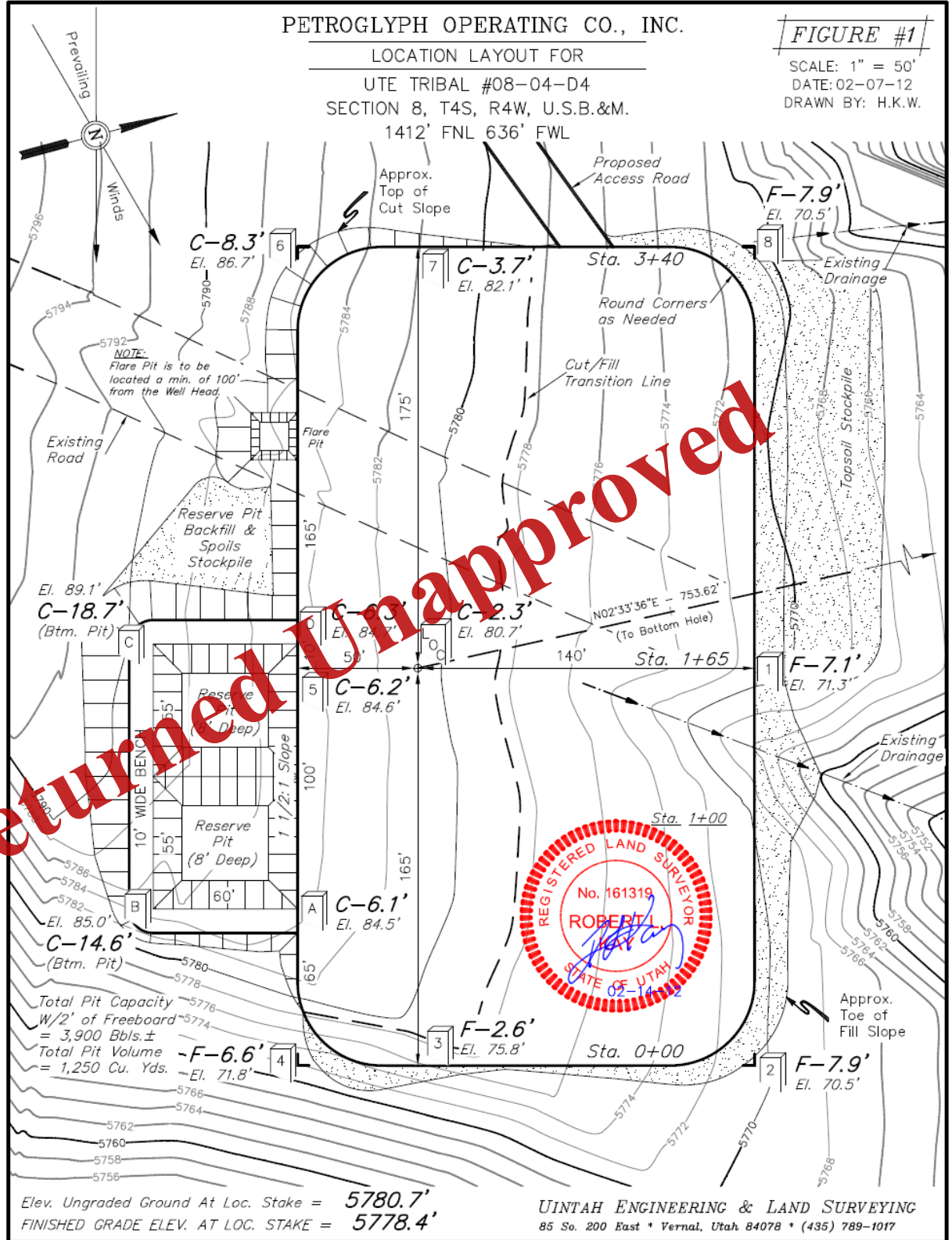
UTE TRIBAL #08-04-D4
SECTION 8, T4S, R4W, U.S.B.&M.
1412' FNL 636' FWL

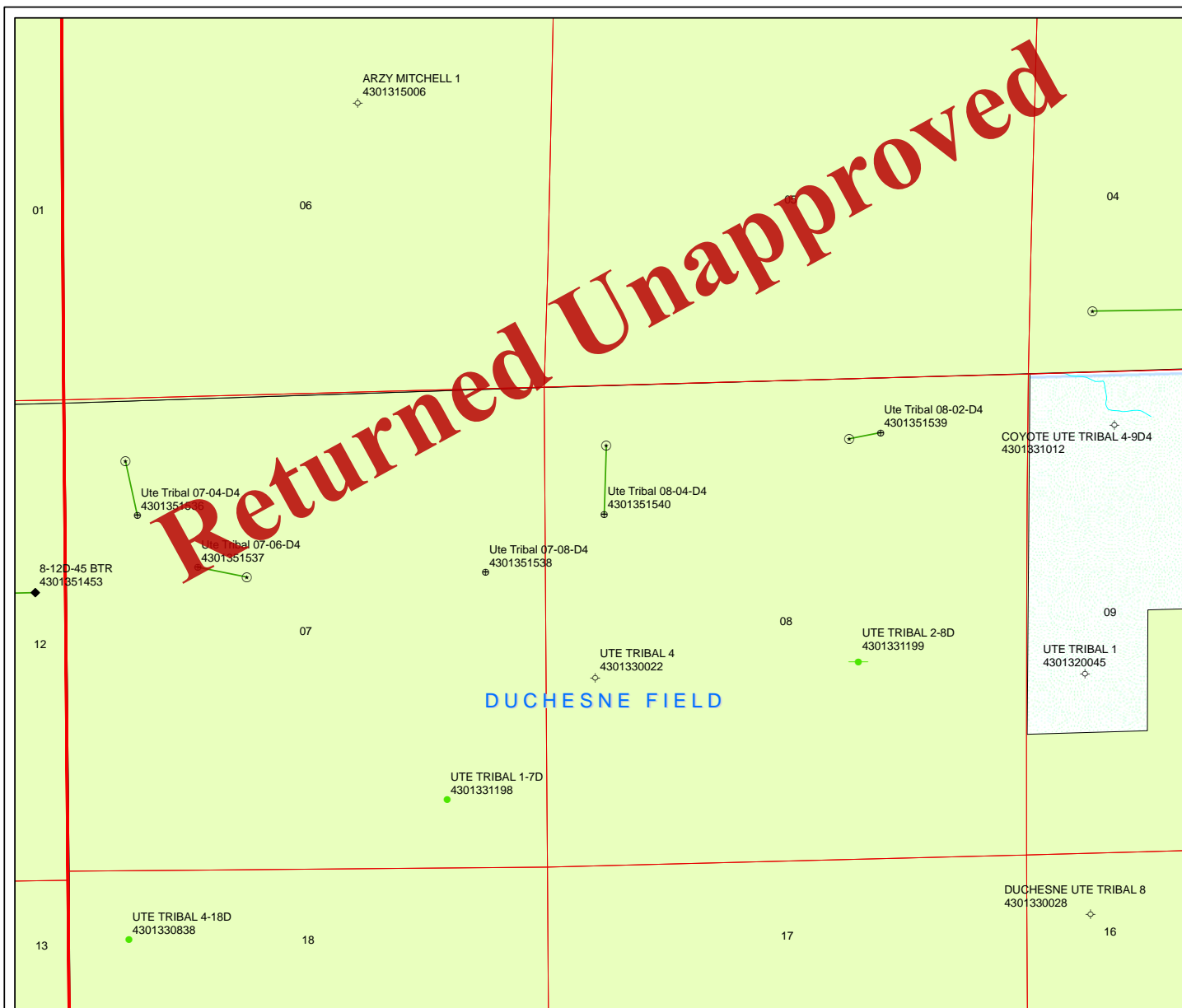
FIGURE #1

SCALE: 1" = 50'

DATE: 02-07-12

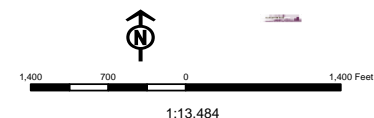
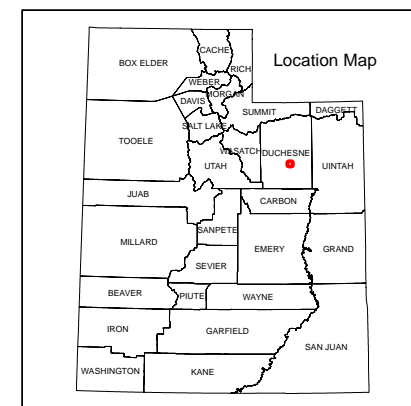
DRAWN BY: H.K.W.





API Number: 4301351540
Well Name: Ute Tribal 08-04-D4
Township T04.0S Range R04.0W Section 08
Meridian: UBM
Operator: PETROGLYPH OPERATING CO
Map Prepared:
Map Produced by Diana Mason

Units	Wells Query
STATUS	Status
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LOC - New Location
PI OIL	OPS - Operation Suspended
PP GAS	PA - Plugged Abandoned
PP GEOTHERM	PGW - Producing Gas Well
PP OIL	POW - Producing Oil Well
SECONDARY	SGW - Shut-in Gas Well
TERMINATED	SOW - Shut-in Oil Well
Fields	TA - Temp. Abandoned
Unknown	TW - Test Well
ABANDONED	WDW - Water Disposal
ACTIVE	WW - Water Injection Well
COMBINED	WSW - Water Supply Well
INACTIVE	Bottom Hole Location - Oil/Gas/Dib
STORAGE	
TERMINATED	





GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

February 19, 2014

PETROGLYPH OPERATING CO
960 Broadway Avenue, Ste 500
Boise, ID 83703

Re: Application for Permit to Drill - DUCHESNE County, Utah

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the Ute Tribal 08-04-D4 well, API 43013515400000 that was submitted July 02, 2012 is being returned unapproved. If you plan on drilling this well in the future, you must first submit a new application.

Should you have any questions regarding this matter, please call me at (801) 538-5312.

Sincerely,

Diana Mason
Environmental Scientist

Enclosure

cc: Bureau of Land Management, Vernal, Utah



